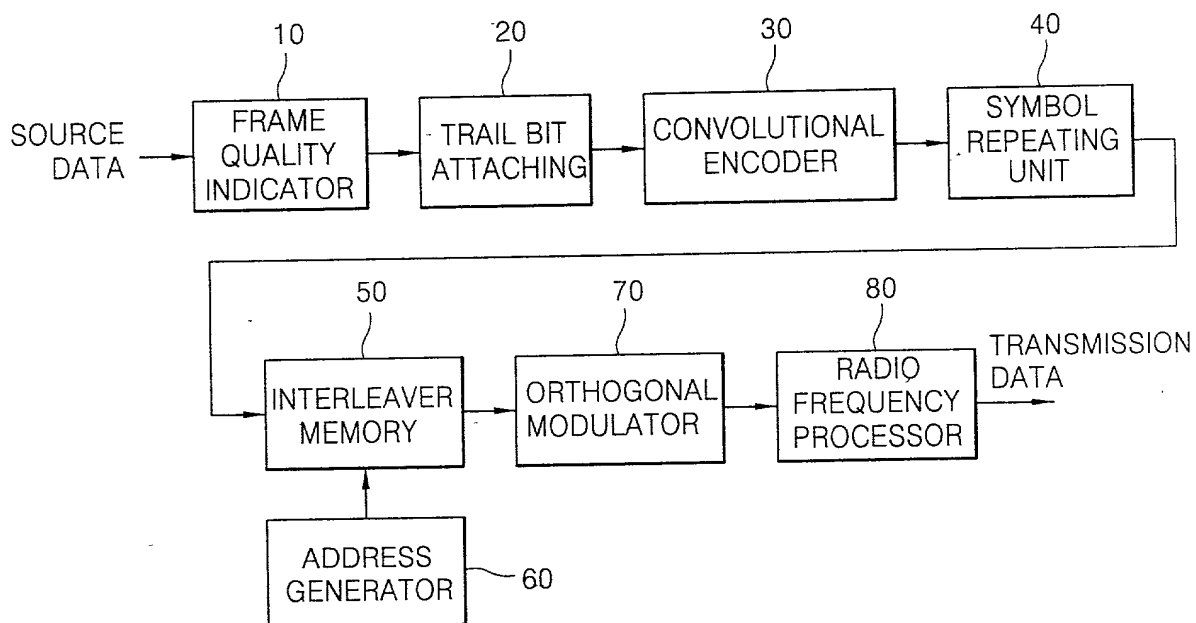


FIG. 1
BACKGROUND ART



[illegible]

| | | | | | | | | | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 33 | 65 | 97 | 129 | 161 | 193 | 225 | 257 | 289 | 321 | 353 | 385 | 417 | 449 | 481 | 513 | 545 |
| 2 | 34 | 66 | 98 | 130 | 162 | 194 | 226 | 258 | 290 | 322 | 354 | 356 | 418 | 450 | 482 | 514 | 546 |
| 3 | 35 | 67 | . | . | . | . | . | . | . | . | . | . | . | . | . | 515 | 547 |
| 4 | 36 | . | 100 | . | . | . | . | . | . | . | . | . | . | . | . | 516 | 548 |
| 5 | 37 | . | . | 132 | . | . | . | . | . | . | . | . | . | . | . | 517 | 549 |
| 6 | 38 | . | . | . | 166 | . | . | . | . | . | . | . | . | . | . | 518 | 550 |
| 7 | 39 | . | . | . | . | 199 | . | . | . | . | . | . | . | . | . | 519 | 551 |
| 8 | 40 | . | . | . | . | . | 232 | . | . | . | . | . | . | . | . | 520 | 552 |
| 9 | 41 | . | . | . | . | . | . | 265 | . | . | . | . | . | . | . | 521 | 553 |
| 10 | 42 | . | . | . | . | . | . | . | 298 | . | . | . | . | . | . | 522 | 554 |
| 11 | 43 | . | . | . | . | . | . | . | . | 331 | . | . | . | . | . | 523 | 555 |
| 12 | 44 | . | . | . | . | . | . | . | . | . | 364 | . | . | . | . | 524 | 556 |
| 13 | 45 | . | . | . | . | . | . | . | . | . | . | 397 | . | . | . | 525 | 557 |
| 14 | 46 | . | . | . | . | . | . | . | . | . | . | . | 430 | . | . | 526 | 558 |
| 15 | 47 | . | . | . | . | . | . | . | . | . | . | . | . | 463 | . | 527 | 559 |
| 16 | 48 | . | . | . | . | . | . | . | . | . | . | . | . | . | 496 | 528 | 560 |
| 17 | 49 | 81 | . | . | . | . | . | . | . | . | . | . | . | . | . | 529 | 561 |
| 18 | 50 | . | 114 | . | . | . | . | . | . | . | . | . | . | . | . | 530 | 562 |
| 19 | 51 | . | . | 147 | . | . | . | . | . | . | . | . | . | . | . | 531 | 563 |
| 20 | 52 | . | . | . | 180 | . | . | . | . | . | . | . | . | . | . | 532 | 564 |
| 21 | 53 | . | . | . | . | 213 | . | . | . | . | . | . | . | . | . | 533 | 565 |
| 22 | 54 | . | . | . | . | . | 246 | . | . | . | . | . | . | . | . | 534 | 566 |
| 23 | 55 | . | . | . | . | . | . | 279 | . | . | . | . | . | . | . | 535 | 567 |
| 24 | 56 | . | . | . | . | . | . | . | 312 | . | . | . | . | . | . | 536 | 568 |
| 25 | 57 | . | . | . | . | . | . | . | . | 345 | . | . | . | . | . | 537 | 569 |
| 26 | 58 | . | . | . | . | . | . | . | . | . | 378 | . | . | . | . | 538 | 570 |
| 27 | 59 | . | . | . | . | . | . | . | . | . | . | 411 | . | . | . | 539 | 571 |
| 28 | 60 | . | . | . | . | . | . | . | . | . | . | . | 444 | . | . | 540 | 572 |
| 29 | 61 | . | . | . | . | . | . | . | . | . | . | . | . | 477 | . | 541 | 573 |
| 30 | 62 | . | . | . | . | . | . | . | . | . | . | . | . | . | 510 | 542 | 574 |
| 31 | 63 | 95 | 127 | 159 | 191 | 223 | 255 | 287 | 329 | 351 | 383 | 415 | 447 | 479 | 541 | 543 | 575 |
| 32 | 64 | 96 | 128 | 160 | 192 | 224 | 256 | 288 | 320 | 352 | 384 | 416 | 448 | 480 | 542 | 544 | 576 |

FIG. 3
BACKGROUND ART

FULL
RATE

| | | | | | | | | |
|----|----|---|---|---|---|---|-----|-----|
| 1 | 33 | . | . | . | . | . | 513 | 545 |
| 2 | 34 | . | . | . | . | . | 514 | 546 |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| 31 | 63 | . | . | . | . | . | 543 | 575 |
| 32 | 64 | . | . | . | . | . | 544 | 576 |

HALF RATE
(ONE TIMES
REPEATION)

| | | | | | | | | |
|----|----|---|---|---|---|---|-----|-----|
| 1 | 17 | . | . | . | . | . | 257 | 273 |
| 1 | 17 | . | . | . | . | . | 257 | 273 |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| 16 | 32 | . | . | . | . | . | 272 | 288 |
| 16 | 32 | . | . | . | . | . | 272 | 288 |

QUARTER
RATE
(3 TIMES
REPEATION)

| | | | | | | | | |
|---|----|---|---|---|---|---|-----|-----|
| 1 | 9 | . | . | . | . | . | 129 | 137 |
| 1 | 9 | . | . | . | . | . | 129 | 137 |
| 1 | 9 | . | . | . | . | . | 129 | 137 |
| 1 | 9 | . | . | . | . | . | 129 | 137 |
| . | . | . | . | . | . | . | . | . |
| 8 | 16 | . | . | . | . | . | 136 | 144 |
| 8 | 16 | . | . | . | . | . | 136 | 144 |

EIGHT RATE
(7 TIMES
REPEATION)

| | | | | | | | | |
|---|---|---|---|---|---|---|----|----|
| 1 | 5 | . | . | . | . | . | 65 | 69 |
| 1 | 5 | . | . | . | . | . | 65 | 69 |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . |
| 4 | 8 | . | . | . | . | . | 68 | 72 |
| 4 | 8 | . | . | . | . | . | 68 | 72 |

FIG. 3

FIG. 4
BACKGROUND ART

ROW →

| | | | | | | | | | | | |
|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 1 | 17 | 33 | 49 | 65 | 81 | 97 | 113 | 129 | 145 | 161 | 177 |
| 2 | 18 | 34 | 50 | 66 | 82 | 98 | 114 | 130 | 146 | 162 | 178 |
| 3 | 19 | 35 | 51 | 67 | 83 | 99 | 115 | 131 | 147 | 163 | 179 |
| 4 | 20 | 36 | 52 | 68 | 84 | 100 | 116 | 132 | 148 | 164 | 180 |
| 5 | 21 | 37 | 53 | 69 | 85 | 101 | 117 | 133 | 149 | 165 | 181 |
| 6 | 22 | 38 | 54 | 70 | 86 | 102 | 118 | 134 | 150 | 166 | 182 |
| 7 | 23 | 39 | 55 | 71 | 87 | 103 | 119 | 135 | 151 | 167 | 183 |
| 8 | 24 | 40 | 56 | 72 | 88 | 104 | 120 | 136 | 152 | 168 | 184 |
| 9 | 25 | 41 | 57 | 73 | 89 | 105 | 121 | 137 | 153 | 169 | 185 |
| 10 | 26 | 42 | 58 | 74 | 90 | 106 | 122 | 138 | 154 | 170 | 186 |
| 11 | 27 | 43 | 59 | 75 | 91 | 107 | 123 | 139 | 155 | 171 | 187 |
| 12 | 28 | 44 | 60 | 76 | 92 | 108 | 124 | 140 | 156 | 172 | 188 |
| 13 | 29 | 45 | 61 | 77 | 93 | 109 | 125 | 141 | 157 | 173 | 189 |
| 14 | 30 | 46 | 62 | 78 | 94 | 110 | 126 | 142 | 158 | 174 | 190 |
| 15 | 31 | 47 | 63 | 79 | 95 | 111 | 127 | 143 | 159 | 175 | 191 |
| 16 | 32 | 48 | 64 | 80 | 96 | 112 | 128 | 144 | 160 | 176 | 192 |

↑
COLUMN

FIG. 5
BACKGROUND ART

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|----|----|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|
| ROW | 1 | | | | | | | | | | | | 2 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| OUTPUT | 1 17 33 49 65 81 97 113 129 145 161 177 | | | | | | | | | | | | 2 18 34 50 66 82 98 114 130 146 162 178 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 3 | | | | | | | | | | | | 4 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| OUTPUT | 3 19 35 51 67 83 99 115 131 147 163 179 | | | | | | | | | | | | 4 20 36 52 68 84 100 116 132 148 164 180 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 5 | | | | | | | | | | | | 6 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| OUTPUT | 5 21 37 53 69 85 101 117 148 133 165 181 | | | | | | | | | | | | 6 22 38 54 70 86 102 118 134 150 166 182 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 7 | | | | | | | | | | | | 8 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| OUTPUT | 7 23 39 55 71 87 103 119 135 151 167 183 | | | | | | | | | | | | 8 24 40 56 72 88 104 120 136 152 168 184 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 9 | | | | | | | | | | | | 10 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| OUTPUT | 9 25 41 57 73 89 105 121 137 153 169 185 | | | | | | | | | | | | 10 26 42 58 74 90 106 122 138 154 170 186 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 11 | | | | | | | | | | | | 12 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| OUTPUT | 11 27 43 59 75 91 107 123 139 155 171 187 | | | | | | | | | | | | 12 28 44 60 76 92 108 124 140 156 172 188 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 13 | | | | | | | | | | | | 14 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| OUTPUT | 13 29 45 61 77 93 109 125 141 157 173 189 | | | | | | | | | | | | 14 30 46 62 78 94 110 126 142 158 174 190 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW | 15 | | | | | | | | | | | | 16 | | | | | | | | | | | |
| ADDRESS | | | | | | | | | | | | | | | | | | | | | | | | |
| COLUMN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ADDRESS | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| OUTPUT | 15 31 47 63 79 95 111 127 143 159 175 191 | | | | | | | | | | | | 16 32 48 64 80 96 112 128 144 160 176 192 | | | | | | | | | | | |
| DATA | | | | | | | | | | | | | | | | | | | | | | | | |

FIG. 5 BACKGROUND ART

FIG. 6

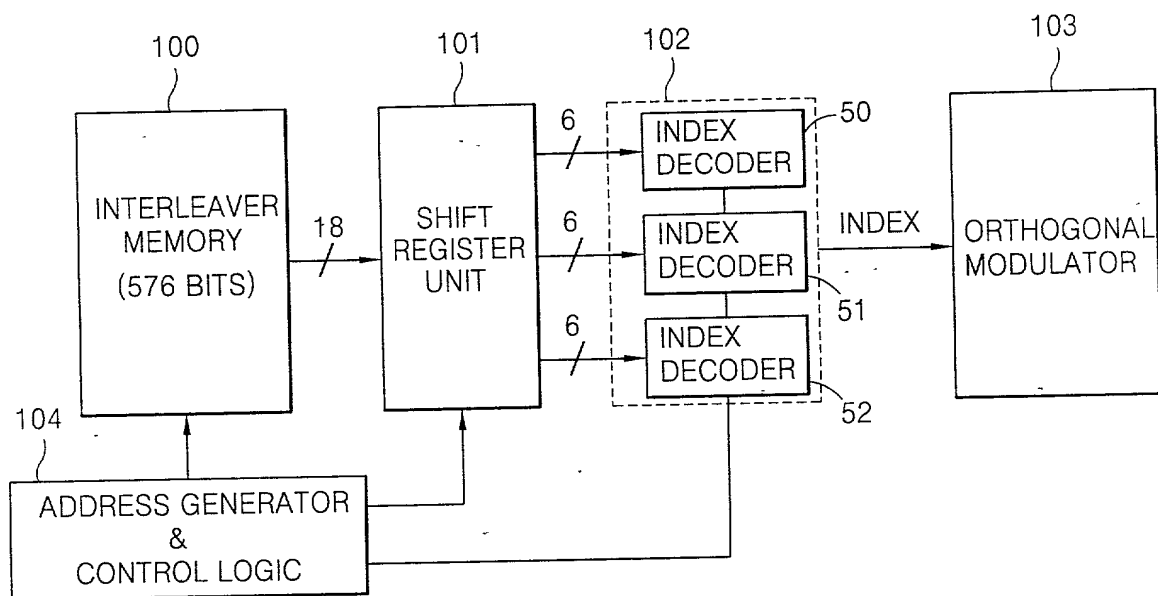


FIG. 7

| | | |
|-------------|---|---|
| ROW | 1 | 2 |
| ADDRESS | 1 17 33 49 65 81 97 113 129 145 161 177 | 2 18 34 50 66 82 98 114 130 146 162 178 |
| OUTPUT DATA | | |
| ROW | 3 | 4 |
| ADDRESS | 3 19 35 51 67 83 99 115 131 147 163 179 | 4 20 36 52 68 84 100 116 132 148 164 180 |
| OUTPUT DATA | | |
| ROW | 5 | 6 |
| ADDRESS | 5 21 37 53 69 85 101 117 133 149 165 181 | 6 22 38 54 70 86 102 118 134 150 166 182 |
| OUTPUT DATA | | |
| ROW | 7 | 8 |
| ADDRESS | 7 23 39 55 71 87 103 119 135 151 167 183 | 8 24 40 56 72 88 104 120 136 152 168 184 |
| OUTPUT DATA | | |
| ROW | 9 | 10 |
| ADDRESS | 9 25 41 57 73 89 105 121 137 153 169 185 | 10 26 42 58 74 90 106 122 138 154 170 186 |
| OUTPUT DATA | | |
| ROW | 11 | 12 |
| ADDRESS | 11 27 43 59 75 91 107 123 139 155 171 187 | 12 28 44 60 76 92 108 124 140 156 172 188 |
| OUTPUT DATA | | |
| ROW | 13 | 14 |
| ADDRESS | 13 29 45 61 77 93 109 125 141 157 173 189 | 14 30 46 62 78 94 110 126 142 158 174 190 |
| OUTPUT DATA | | |
| ROW | 15 | 16 |
| ADDRESS | 15 31 47 63 79 95 111 127 143 159 175 191 | 16 32 48 64 80 96 112 128 144 160 176 192 |
| OUTPUT DATA | | |

FIG. 8

The diagram shows a table with 16 rows and 12 columns. The first column contains row indices (1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8). The remaining 11 columns contain numerical data. Annotations include: 'ROW' with an arrow pointing to the first row; 'COLUMN' with an arrow pointing to the first column; 'REPEATED DATA' with arrows pointing to the first column of rows 1, 2, 3, 4, 5, and 6; and 'VAILD DATA' (sic) with arrows pointing to the last column of rows 1, 2, 3, 4, 5, 6, 7, and 8.

| | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 9 | 17 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | 81 | 89 |
| 1 | 9 | 17 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | 81 | 89 |
| 2 | 10 | 18 | 26 | 34 | 42 | 50 | 58 | 66 | 74 | 82 | 90 |
| 2 | 10 | 18 | 26 | 34 | 42 | 50 | 58 | 66 | 74 | 82 | 90 |
| 3 | 11 | 19 | 27 | 35 | 43 | 51 | 59 | 67 | 75 | 83 | 91 |
| 3 | 11 | 19 | 27 | 35 | 43 | 51 | 59 | 67 | 75 | 83 | 91 |
| 4 | 12 | 20 | 28 | 36 | 44 | 52 | 60 | 68 | 76 | 84 | 92 |
| 4 | 12 | 20 | 28 | 36 | 44 | 52 | 60 | 68 | 76 | 84 | 92 |
| 5 | 13 | 21 | 29 | 37 | 45 | 53 | 61 | 69 | 77 | 85 | 93 |
| 5 | 13 | 21 | 29 | 37 | 45 | 53 | 61 | 69 | 77 | 85 | 93 |
| 6 | 14 | 22 | 30 | 38 | 46 | 54 | 62 | 70 | 78 | 86 | 94 |
| 6 | 14 | 22 | 30 | 38 | 46 | 54 | 62 | 70 | 78 | 86 | 94 |
| 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 | 95 |
| 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 | 95 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |

FIG. 9

| | | |
|-------------|------------------------------------|-------------------------|
| ROW ADDRESS | 1 | 2 |
| OUTPUT DATA | 1 9 17 25 33 41 49 57 65 73 81 89 | X X X X X X X X X X X X |
| ROW ADDRESS | 3 | 4 |
| OUTPUT DATA | 2 10 18 26 34 42 50 58 66 74 82 90 | X X X X X X X X X X X X |
| ROW ADDRESS | 5 | 6 |
| OUTPUT DATA | 3 11 19 27 35 43 51 59 67 75 83 91 | X X X X X X X X X X X X |
| ROW ADDRESS | 7 | 8 |
| OUTPUT DATA | 4 12 20 28 36 44 52 60 68 76 84 92 | X X X X X X X X X X X X |
| ROW ADDRESS | 9 | 10 |
| OUTPUT DATA | 5 13 21 29 37 45 53 61 69 77 85 93 | X X X X X X X X X X X X |
| ROW ADDRESS | 11 | 12 |
| OUTPUT DATA | 6 14 22 30 38 46 54 62 70 78 86 94 | X X X X X X X X X X X X |
| ROW ADDRESS | 13 | 14 |
| OUTPUT DATA | 7 15 23 31 39 47 55 63 71 79 87 95 | X X X X X X X X X X X X |
| ROW ADDRESS | 15 | 16 |
| OUTPUT DATA | 8 16 24 32 40 48 56 64 72 80 88 96 | X X X X X X X X X X X X |